

**TOP HIGH IMAGE CORP.**

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NO.20, JYUGUAN 2nd ST., Tafa INDUSTRIAL DISTRICT, KAOHSIUNG 831, TAIWAN.  
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BANK: HUA NAN COMMERCIAL BANK LTD., KAOHSIUNG BRANCH.  
BANK ADD: NO.178, WUFU 4th RD., KAOHSIUNG 803, TAIWAN.

<b>MSDS</b>
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SUBJECT:

**MSDS: THP99 Positive Thermal CTP Plate Developer.**

KEYWORD:THP99Dvp, thermal CTP plate, developer, MSDS.

MSDS of TOP **THP99** Positive Thermal CTP Plate Developer:

**01. Chemical Product and Company Identification**

Common Name:	<ul style="list-style-type: none"> <li>TOP THP99 Positive Thermal CTP Plate Developer.</li> </ul>
Area of Application:	<ul style="list-style-type: none"> <li>Industrial Applications; Graphic Arts Product; Plate Developer.</li> </ul>
Supplier:	<ul style="list-style-type: none"> <li>Top High Image Corp.</li> <li>No. 20, Jyuguang 2nd St., Tafa Industrial District, Kaohsiung 831, Taiwan.</li> </ul>
Emergency Telephone Number:	<ul style="list-style-type: none"> <li>+886.7.7877690.</li> </ul>

**02. Composition, Information on Ingredients**

Name	% by Weight
1) Water:	70~100

2) Sodium Silicate:

5~10

### 03. Hazards Identification

Physical State:	Liquid.
Emergency Overview:	<ul style="list-style-type: none"><li>• WARNING! CAUSES SKIN AND EYE IRRITATION. MAY BE HARMFUL IF SWALLOWED.</li><li>• Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Ventilation is normally required when handling or using this product. Wash thoroughly after handling.</li></ul>
Routes of Entry:	Dermal contact. Eye contact. Inhalation. Ingestion.
Potential Acute Health Effects on Eyes:	Hazardous in case of eye contact.
Potential Acute Health Effects on Skin:	Sensitizing properties of the product: Not available. Hazardous in case of skin contact. Skin inflammation is characterized by itching, scaling, reddening, or occasionally blistering.
Potential Acute Health Effects on Inhalation:	Low hazard for recommended handling.
Potential Acute Health Effects on Ingestion:	May be harmful if swallowed.
Potential Chronic Health Effects:	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.
Medical Conditions:	Repeated or prolonged exposure is not known to aggravate any medical condition.

#### 04. First Aid Measures

Eye Contact:	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
Skin Contact:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation persists, get medical attention. Wash contaminated clothing before reusing.
Inhalation:	Allow the victim to rest in a well-ventilated area. If irritation persists, seek medical attention.
Ingestion:	Do not induce vomiting. Have conscious person drink several glasses of water or milk. Get medical attention immediately.

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#### 05. Fire Fighting Measures

Flammability of the Product:	Non-combustible.
Hazardous Thermal (De)Composition Products:	These products are carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ...).
Fire Hazards in Presence of Various Substances:	Not available.
Explosion Hazards in Presence of Various Substances:	Not available.
Fire Fighting Media and Instructions:	Use dry chemical, CO <sub>2</sub> , water spray or foam.
Protective Clothing (Fire):	Be sure to use an approved / certified respirator or equivalent.

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#### 06. Accidental Release Measures

Small Spill and Leak:	Absorb with an inert material and place in an appropriate waste disposal container. If necessary, neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill and Leak:	Absorb with an inert material and place in an appropriate waste disposal container. Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

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## 07. Handling and Storage

Handling:	Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Ventilation is normally required when handling or using this product. Wash thoroughly after handling.
Storage:	Keep container in a cool, well-ventilated area. Keep container tightly closed. Prevent from freezing.

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## 08. Exposure Controls, Personal Protection

Engineering Controls:	Ventilation is normally required when handling or using this product (typically 10 air changes per hour). Ensure that eyewash stations and safety showers are close to the work-station location.
Personal Protection:	Eyes: Safety glasses. Body: Not applicable. Respiratory: Not applicable. Hands: Impervious gloves. Feet: Not applicable.

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## 09. Physical and Chemical Properties

Physical State and Appearance:	Liquid.
Odor:	Slight.
Color:	Colorless.
pH:	>13.
Boiling/Condensation Point:	>100°C (212°F).
Melting/Freezing Point:	<0°C (32°F).
Specific Gravity:	1.078 (Water = 1).
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Volatility:	90% ~ 95%
VOC content-calculated:	11.9 g/L.
Dispersion Properties:	See solubility in water.
Solubility:	Easily soluble in cold water.

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## 10. Stability and Reactivity

Stability and Reactivity:	The product is stable.
Conditions of Instability:	Not available.
Incompatibility with Various Substances:	Incompatible with strong oxidizing agents. Incompatible with some strong acids.
Hazardous Decomposition Products:	These products are carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ...).
Hazardous Polymerization:	Will not occur.

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## 11. Stability and Reactivity

Toxicity to Animals:	Water: ORAL (LD50): Acute: >90000 mg/kg [Rat]. Sodium Silicate: ORAL (LD50): Acute: 1280 mg/kg [Rat].
Chronic Effects on Humans:	Not available.
Other Toxic Effects on Humans:	Hazardous in case of skin contact, of eye contact.

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## 12. Ecological Information

Organics Readily: Degradable (70%)	Not available.
Ecotoxicity:	Ecotoxicity in water (LC50): 1800 mg/l, 96 hour/hours [Fish (Mosquitofish (Gambusia affinis))]. Sodium silicate).

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## 13. Disposal Considerations

Waste Information:	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
	Consult your local or regional authorities.

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## 14. Transport Information

DOT Classification:	Not a DOT controlled material (United States).
TDG Classification:	Not a TDG-controlled material.
ADR/RID Classification:	Not controlled under European ADR.
IMO/IMDG Classification:	Not controlled under IMDG.
ICAO/IATA Classification:	Not controlled under IATA.

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## 15. Regulatory Information

HCS Classification:	HCS Class: Irritating substance.
U.S. Federal Regulations:	TSCA 8(b) inventory: All the ingredients are on the TSCA list. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112(r) accidental release prevention: No products were found.
WHMIS (Canada):	Class D-2B: Material causing other toxic effects (Toxic).  This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
CEPA DSL / NDSL:	CEPA DSL: All the ingredients are on the DSL list.
DSCL (EEC):	R36/38- Irritating to eyes and skin.

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## 16. Other Information

References:	Not available.
Other Special Considerations:	Not available.

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**FOR INDUSTRIAL USE ONLY.**

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**DMP / TOP Technical Communications.**

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